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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/654,377	09/03/2003	Luciano M. Parrinello	1748P1	4183
. 759	90 • 03/15/2006		EXAMINER	
PPG Industries, Inc.			SASTRI, SATYA B	
	Property 39 SW		ART UNIT PAPER NUMBER	
One PPG Place Pittsburgh, PA 15272			1713	TALERNOMBER

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/654,377	PARRINELLO ET	PARRINELLO ET AL.			
Office Action Summary	Examiner	Art Unit				
	Satya B. Sastri	1713				
The MAILING DATE of this communication appeariod for Reply	ppears on the cover she	et with the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMM 1.136(a). In no event, however, n d will apply and will expire SIX (6 ate, cause the application to become	IUNICATION. nay a reply be timely filed i) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30	January 2006.					
	is action is non-final.					
3) Since this application is in condition for allow		matters, prosecution as to the	e merits is			
closed in accordance with the practice under	•					
Disposition of Claims						
4)⊠ Claim(s) 1-96 is/are pending in the applicatio	ın	·				
	4a) Of the above claim(s) <u>24-61 and 63-96</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	_					
6) Claim(s) 1-23 and 62 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-96 are subject to restriction and/o	r election requirement					
Olaim(s) 1-30 are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) ac	cepted or b) objecte	d to by the Examiner.				
Applicant may not request that any objection to th	e drawing(s) be held in at	peyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	ection is required if the dra	wing(s) is objected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the E	Examiner. Note the atta	ched Office Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document 3.	nts have been received nts have been received ority documents have t	l. I in Application No Deen received in this National	l Stage			
application from the International Bure: * See the attached detailed Office action for a lis	, , , , , , , , , , , , , , , , , , , ,					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Pape 8) 5) 🔲 Notic	view Summary (PTO-413) er No(s)/Mail Date be of Informal Patent Application (PTo	O-152)			
	. —					

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DETAILED ACTION

1. This action is in response to applicant's amendment filed on January 30, 2006. *Claims 1-96* are now pending in the application with *claims 24-61, 63-96* withdrawn from further consideration as being drawn to non-elected invention.

2. Applicants' arguments have been fully considered but not found persuasive and therefore, the rejection of *claims 1-23*, 62 under 35 U.S.C. 103(a) as being unpatentable over Naik et al. (US 6,866,383 B2) in view of Schliesman et al. (US 6,656,545 B1) is sustained. The rejection of *claims 1-23*, 62 under 35 U.S.C. 112, second paragraph, as being indefinite has been withdrawn.

Response to Arguments

3. Applicants argue that the prior art To Naik et al. and Schliesman et al. disclose compositions that include a porous filler. It is noted that the instant claims include the transitional phrase "comprising" that does not necessarily exclude other components such as fillers. Secondly, as for the motivation to combine references, instant claims recite compositions comprising an aqueous polyurethane dispersion, a cationic nitrogen-containing polymeric dye fixative compound and an acrylic polymer wherein the composition has a pH of 7 or less. The composition is clearly taught by the primary reference and the motivation to maintain a pH of 7 or less is clearly provided by the secondary reference. As stated in the earlier office action, the secondary reference to Schliesman et al. discloses that low pH values of 4.5 to 7.5 are useful in

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improved ink holdout (column 1, lines 50-60). The prior art explicitly teaches that cationic fixing agents are effective at low pH conditions (4.5 to 7.5), but become less effective at alkaline pH values (column 4, lines 19-52). With regard to the binder, secondary reference includes polyvinyl alcohol and other compatible latexes while the primary reference includes polyurethane and polyacrylic dispersions. The binders in both references are functionally equivalent and given that the fixing agent is cationic nitrogen-containing polymeric in both references, the low pH values would be desirable in compositions disclosed by Naik et al. as well for improved ink holdout as taught by Schliesman et al.

4. With regard to the applicant's arguments that the combined references of Naik et al. and Schliesman et al. "do not disclose not suggest the use of polyurethane dispersion in combination with a dye fixative and acrylic polymer for the purpose of rendering a microporous substrate substantially water-resistant", the composition is clearly taught by the prior art references. Thus, all the advantages of the composition must inherently be present when coated on a substrate, including rendering a microporous substrate substantially water-resistant. With respect to the preamble, the intended use language (such as substantially water-resistant ink jet recordable substrate coating composition) must result in a structural difference to patentably distinguish over the prior art. If the prior art structure or composition is capable of performing the intended use, then it meets the claim. MPEP 2112.02. The preamble of the instant claims merely shows the environment in which the composition operates.

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Action Is Final

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Future Correspondence

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satya Sastri whose telephone number is 571-272-1112.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300 for regular communications. The unofficial direct fax phone number to the Examiner's desk is 571-273-1112.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SATYA SASTRI

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March 13, 2006

DAVID W. WU SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

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